

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for recording interactions reflected in messages, the method comprising the computer-implemented steps of:

intercepting a message that has been sent from a first participant to a second participant prior to said message arriving at said second participant;

wherein intercepting the message is performed by a device coupled between a plurality of clients and a plurality of servers, wherein the message is addressed to said second participant and not to said device;

wherein said message includes identifier information;

wherein said device has access to the message and can interpret the identifier information contained within the message;

wherein said first participant is one of a service requestor and a service provider and the second participant is the other of the service requestor and the service provider;

on said device, determining the identity of the first participant based on said identifier information in said message;

on said device, determining whether said message has billing implications;

on said device, if said message has billing implications, using said identity to maintain a log of the interaction between said first participant by said second participant, wherein said interaction involves one or more messages sent by the first participant that are addressed to the second participant, and one or more messages sent by the second participant that are addressed to the first participant; and wherein said log is based at least in part on reply messages that pass through said device.

2. (Previously Presented) The method of Claim 1

further comprising the step of identifying which services are being provided to said clients by said servers based on the content of messages that pass through said device; and
billing said clients for said services based on which services are being provided to said clients by said servers.

3. (Original) The method of Claim 2 wherein:
the device is controlled by a first party, and the services are provided by a set of second parties; and
the first party performs the step of billing on behalf of the set of second parties.
4. (Currently Amended) The method for Claim 1 further comprising the computer-implemented ~~steps~~ step of:
~~determining whether said message has billing implications;~~
~~if said message has billing implications, then generating the log; and~~
using said log to charge a particular participant for a service indicated in the message,
wherein said particular participant is one of said first participant and said second participant.
5. (Original) The method for Claim 4 wherein the log includes a service requestor identification.
6. (Original) The method for Claim 4 wherein the log includes information to indicate how much the particular participant is to pay for the service.
7. (Original) The method for Claim 4 further comprising the computer-implemented step of sending a plurality of logs, including said log, to an aggregation engine that places access information contained in said plurality of logs into the format required by a billing system.
8. (Original) The method for Claim 4 further comprises:
determining that the particular participant must pre-pay for the service;

determining whether the particular participant has sufficient funds to pay for the service;
and
determining how to handle said message based on whether said particular participant has
sufficient funds to pay for the service.

9. (Original) The method for Claim 4 further comprising the computer-implemented steps
of:

inspecting a provider profile associated with the service provider; and
determining that the service requestor must pre-pay for the service based on the provider
profile.

10. (Original) The method for Claim 4 further comprising the computer-implemented steps
of:

inspecting a requestor profile associated with the service requestor; and
determining that the service requestor must pre-pay for the service based on the requestor
profile.

11. (Original) The method for Claim 4 further wherein the message is a response from the
service provider and includes a price at which the service provider is willing to provide the
service.

12. (Original) The method for Claim 4 wherein the service involves providing content from
the service provider.

13. (Original) The method for Claim 1 further comprising the steps of:
determining a service class for said first participant based on the identity of the first
participant; and
determining where to direct said message to based on said service class.

14. (Original) The method for Claim 4 further comprising the steps of:

determining a service class for said first participant based on the identity of the first participant; and
wherein the service that the service requestor is provided is determined by said service class.

15. (Previously Presented) The method for Claim 4 further comprising the step of updating a service requestor profile based on the service that is requested.

16. (Previously Presented) The method for Claim 4 further comprising the step of decrementing an account balance of the particular participant when the service requestor accesses the service.

17. (Original) The method for Claim 4 further comprising the step of determining from the message the service that is requested by the service requestor.

18. (Original) The method for Claim 1 further comprising the computer-implemented step of:
locating a profile based on the identity of the first participant.

19. (Original) The method for Claim 18 further comprising the computer-implemented step of:
storing billing data associated with the service requestor in the profile.

20. (Original) The method for Claim 18 further comprising the computer-implemented step of:
determining a price that the service requestor will pay for a service from the profile.

21. (Original) The method for Claim 18 further comprising the computer-implemented step of:
billing the service requestor if the profile indicates that the service requestor is to be billed.

22. (Original) The method for Claim 18 wherein the step of locating the profile further comprises the computer-implemented step of:
- extracting a participant ID from the message; and
 - locating the profile based on a participant ID.
23. (Original) The method for Claim 18 further comprising maintaining an account balance in the profile.
24. (Previously Presented) The method for Claim 18 further comprising decrementing an account balance of the service requestor when the service requestor accesses a service wherein the service was specified in the message and wherein the service requires a fee.
25. (Original) The method for Claim 18 further comprising updating the profile to award the service requestor a prize for having requested said service.
26. (Original) The method for Claim 18 further comprising the computer-implemented steps of:
- extracting a number from the profile;
 - wherein the number indicates the number of times the service requestor has requested a service;
 - incrementing the number;
 - storing the number back into the profile; and
 - determining whether to bill the service requestor for the service based on the number.
27. (Original) The method for Claim 1 further comprising the computer-implemented step of:
- determining whether the service requestor is allowed access to a service based on information in a profile.
28. (Original) The method for Claim 27 further comprising the computer-implemented steps of:

if the service requestor is not allowed access to the service, then
 sending the service requestor a second message indicating that the service
 requestor is not allowed access to the service.

29. (Previously Presented) The method for Claim 1 further comprising the computer-implemented steps of:

 if the service requestor requires pre-authorization for a service
 sending the service requestor a payment authorization request message; and
 if the service requestor authorizes payment for the service, then
 retransmitting the message to the service provider to obtain the service for the
 service requestor.

30. (Original) The method for Claim 29 further comprising inspecting a profile to determine whether the service requestor requires pre-authorization for the service.

31. (Original) The method for Claim 1 further comprising the computer-implemented steps of:

 determining whether the service requestor has funds to pay for a service based on an
 authorization source.

32. (Original) The method for Claim 31 further comprising the computer-implemented steps of:

 if the service requestor has the funds, then
 causing the funds to be decremented from a requestor account associated with the
 service requestor; and
 retransmitting the message to the service provider to obtain the service for the
 service requestor.

33. (Original) The method for Claim 31 wherein the authorization source is a profile.

34. (Original) The method for Claim 31 wherein the authorization source is a billing system.

35. (Original) The method for Claim 31 wherein the authorization source is a billing scheme of an access provider.

36. (Original) The method for Claim 1 further comprising the computer-implemented steps of:

determining whether the service provider is an authorized partner; and
if the service provider is an authorized partner, then
retransmitting the message to the service provider to obtain a service.

37. (Original) The method for Claim 36 wherein the step of determining whether the service provider is an approved partner further comprises the computer-implemented steps of:

determining whether the service involves a fee by inspecting a provider profile;
if the service does involve a fee, then
establishing a secure connection with the provider; and
authenticating the service provider by using an authentication mechanism.

38. (Currently Amended) A computer-readable storage medium storing instructions for performing the steps of:

intercepting a message that has been sent from a first participant to a second participant prior to said message arriving at said second participant;
wherein intercepting the message is performed by a device coupled between a plurality of clients and a plurality of servers, wherein the message is addressed to said second participant and not to said device;
wherein said message includes identifier information;
wherein said device has access to the message and can interpret the identifier information contained within the message;
wherein said first participant is one of a service requestor and a service provider and the second participant is the other of the service requestor and the service provider;

on said device, determining the identity of the first participant based on said identifier information in said message;

on said device, determining whether said message has billing implications;

on said device, if said message has billing implications, using said identity to maintain a log of the interaction between said first participant by said second participant, wherein said interaction involves one or more messages sent by the first participant that are addressed to the second participant, and one or more messages sent by the second participant that are addressed to the first participant ; and wherein said log is based at least in part on reply messages that pass through said device.

39. (Currently Amended) The computer-readable medium for Claim 38 further comprising instructions for:

~~determining whether said message has billing implications;~~

~~if said message has billing implications, then generating said log; and~~

using said log to charge a particular participant for a service indicated in the message, wherein said particular participant is one of said first participant and said second participant.

40. (Original) The computer-readable medium for Claim 39 wherein the log includes a service requestor identification.

41. (Original) The computer-readable medium for Claim 39 wherein the log includes information to indicate how much the particular participant is to pay for the service.

42. (Original) The computer-readable medium for Claim 39 further comprising instructions for sending a plurality of logs, including said log, to an aggregation engine that places access information contained in said plurality of logs into the format required by a billing system.

43. (Original) The computer-readable medium for Claim 39 further comprises instructions for:

determining that the particular participant must pre-pay for the service;

determining whether the particular participant has sufficient funds to pay for the service;
and
determining how to handle said message based on whether said particular participant has
sufficient funds to pay for the service.

44. (Original) The computer-readable medium for Claim 39 further comprising instructions
for:

inspecting a provider profile associated with the service provider; and
determining that the service requestor must pre-pay for the service based on the provider
profile.

45. (Original) The computer-readable medium for Claim 39 further comprising instructions
for:

inspecting a requestor profile associated with the service requestor; and
determining that the service requestor must pre-pay for the service based on the requestor
profile.

46. (Original) The computer-readable medium for Claim 39 wherein the message is a
response from the service provider and includes a price at which the service provider is willing to
provide the service.

47. (Original) The computer-readable medium for Claim 39 wherein the service involves
providing content from the service provider.

48. (Original) The computer-readable medium for Claim 38 further comprising instructions
for:

determining a service class for said first participant based on the identity of the first
participant; and
determining where to direct said message to based on said service class.

49. (Original) The computer-readable medium for Claim 39 further comprising instructions for:

determining a service class for said first participant based on the identity of the first participant; and

wherein the service that the service requestor is provided is determined by said service class.

50. (Previously Presented) The computer-readable medium for Claim 39 further comprising instructions for updating a service requestor profile based on the service that is requested.

51. (Previously Presented) The computer-readable medium for Claim 39 further comprising instructions for decrementing an account balance of the particular participant when the service requestor accesses the service.

52. (Original) The computer-readable medium for Claim 39 further comprising instructions for determining from the message the service that is requested by the service requestor.

53. (Original) The computer-readable medium for Claim 38 further comprising instructions for:

locating a profile based on the identity of the first participant.

54. (Original) The computer-readable medium for Claim 53 further comprising instructions for:

storing billing data associated with the service requestor in the profile.

55. (Original) The computer-readable medium for Claim 53 further comprising instructions for:

determining a price that the service requestor will pay for a service from the profile.

56. (Original) The computer-readable medium for Claim 53 further comprising instructions for:

billing the service requestor if the profile indicates that the service requestor is to be billed.

57. (Original) The computer-readable medium for Claim 53 wherein instructions for locating the profile further comprises instructions for:

extracting a participant ID from the message; and
locating the profile based on a participant ID.

58. (Original) The computer-readable medium for Claim 53 further comprising instructions for maintaining an account balance in the profile.

59. (Previously Presented) The computer-readable medium for Claim 53 further comprising instructions for decrementing an account balance of the service requestor when the service requestor accesses a service wherein the service was specified in the message and wherein the service requires a fee.

60. (Original) The computer-readable medium for Claim 53 further comprising instructions for updating the profile to award the service requestor a prize for having requested said service.

61. (Original) The computer-readable medium for Claim 53 further comprising instructions for:

extracting a number from the profile;
wherein the number indicates the number of times the service requestor has
requested a service;
incrementing the number;
storing the number back into the profile; and
determining whether to bill the service requestor for the service based on the number.

62. (Original) The computer-readable medium for Claim 38 further comprising instructions for:

determining whether the service requestor is allowed access to a service based on information in a profile.

63. (Original) The computer-readable medium for Claim 62 further comprising instructions for:

if the service requestor is not allowed access to the service, then
sending the service requestor a second message indicating that the service requestor is not allowed access to the service.

64. (Previously Presented) The computer-readable medium for Claim 38 further comprising instructions for:

if the service requestor requires pre-authorization for a service
sending the service requestor a payment authorization request message; and
if the service requestor authorizes payment for the service, then
retransmitting the message to the service provider to obtain the service for the service requestor.

65. (Original) The computer-readable medium for Claim 64 further comprising instructions for inspecting a profile to determine whether the service requestor requires pre-authorization for the service.

66. (Original) The computer-readable medium for Claim 38 further comprising instructions for:

determining whether the service requestor has funds to pay for a service based on an authorization source.

67. (Original) The computer-readable medium for Claim 66 further comprising instructions for:

if the service requestor has the funds, then
causing the funds to be decremented from a requestor account associated with the service requestor; and

retransmitting the message to the service provider to obtain the service for the service requestor.

68. (Original) The computer-readable medium for Claim 66 wherein the authorization source is a profile.

69. (Original) The computer-readable medium for Claim 66 wherein the authorization source is a billing system.

70. (Original) The computer-readable medium for Claim 66 wherein the authorization source is a billing scheme of an access provider.

71. (Original) The computer-readable medium for Claim 38 further comprising instructions for:

determining whether the service provider is an authorized partner; and
if the service provider is an authorized partner, then
retransmitting the message to the service provider to obtain a service.

72. (Original) The computer-readable medium for Claim 71 wherein instructions for determining whether the service provider is an approved partner further comprise instructions for:

determining whether the service involves a fee by inspecting a provider profile;
if the service does involve a fee, then
establishing a secure connection with the provider; and
authenticating the service provider by using an authentication mechanism.